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SEQUENCE LISTING

<110> Mitchell, Lloyd G.
Garcia-Blanco, Mariano A.
Puttaraju, Madaiah
Mansfield, Gary S.

<120> METHODS AND COMPOSITIONS FOR USE IN
SPLICEOSOME MEDIATED RNA TRANS-SPLICING

<130> A31304-B-A-B 072874.0135

<140> 09/756,096

<141> 2001-01-08

<150> 09/158,863

<151> 1998-09-23

<150> 09/133,717

<151> 1998-08-13

<150> 09/087,233

<151> 1998-05-28

<150> 08/766,354

<151> 1996-12-13

<150> 60/008,317

<151> 1995-12-15

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<210> 26

<211> 20
 <212> DNA
 <213> Homo sapien

<400> 26
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<210> 27
 <211> 19
 <212> DNA
 <213> Homo sapien

<400> 27
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<210> 28
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 <223> Oligonucleotide primer complimentary to the
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 <223> Oligonucleotide primer complimentary to the
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<400> 29
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<223> Oligonucleotide primer complimentary to the
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<211> 38

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Escherichia coli lacZ gene

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<223> Oligonucleotide primer complimentary to the
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<210> 33

<211> 37

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<213> Artificial Sequence

<220>

<223> Oligonucleotide primer complimentary to the beta
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<210> 34

SECRET

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 <213> Homo sapiens

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<210> 43
 <211> 51
 <212> DNA
 <213> Homo sapien

<400> 43
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 51

<210> 44
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<400> 44
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 32

<210> 45
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<400> 45
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<210> 46
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<400> 46
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 35

<210> 47
 <211> 32
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 <213> Homo sapien

<400> 47
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32

<210> 48
<211> 21
<212> DNA
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<400> 48
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<210> 49
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<400> 49
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21

<210> 50
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<400> 50
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21

<210> 51
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<400> 51
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32

<210> 52
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<400> 52
aactagaagg cacagtcgag g

according to specification

<400> 55

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gcugcag
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<210> 56

<211> 127

<212> RNA

<213> Artificial Sequence

<220>

<223> PTM intramolecular base paired stem

<221> misc_feature

<222> (57)...(70)

<223> Loop comprising a combination of 14 nucleotides
according to specification

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nnnnnnnnnn aucguuaacu aaauaacuac uaacuggggug aaguucuguc cuugucucga
120
gcugcag
127

<210> 57

<211> 132

<212> DNA

<213> Artificial Sequence

<220>

<223> trans-spliced product containing Human chorionic
gonadotropin gene 6 sequences and Corynebacterium
diphtheriae diphtheria toxin A sequences

<400> 57

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60
aaatcttttg tgatggaaaa cttttcttcg taccacggga ctaaacttgg ttatgtagat
120
tccattcaaa aa
132

gonadotropin gene 6 exon 2 sequences

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<210> 62

<211> 286

<212> DNA

<213> Artificial Sequence

<220>

<223> trans-spliced product containing Escherichia coli
lacZ gene sequences

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286

<210> 63

<211> 196

<212> DNA

<213> Artificial Sequence

<220>

<223> trans-spliced product containing Escherichia coli
lacZ gene sequences

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120
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180
ttcggccacg gtgcg
196

<210> 64

<211> 420

<212> DNA
<213> Artificial Sequence

<220>
<223> trans-spliced product comprising cystic fibrosis
transmembrane regulator-derived sequences and His
tag sequence

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120
tgatgattat gggagaactg gagccttcag agggtaaaat taagcacagt ggaagaattt
180
cattctgttc tcagttttcc tggattatgc ctggcaccat taaagaaaat atcatctttg
240
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420

<210> 65
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Splice junction sequence

<400> 65
atgttccagg gcgtgatgat
20

<210> 66
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<212> PRT
<213> Artificial Sequence

<220>
<223> C terminal residues from glutathione -S-
transferase

<400> 66
Asp Tyr Lys Asp Asp Asp Lys

1

5

<210> 67
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence comprising sequences derived
from Escherichia coli lacZ gene

<400> 67
ggagttgatc ccgtc
15

<210> 68
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence comprising sequences derived
from Escherichia coli lacZ gene

<400> 68
gcagtgtcct tgtgcggtta ccctgcaggg cggettc
37

<210> 69
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Binding domain of PTM

<400> 69
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120

<210> 70
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<212> DNA
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<223> Spacer sequence of PTM

<400> 70

aacattatta taacggttgct cgaa
24

<210> 71

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Branch point, pyrimidine tract and acceptor splice
site of PTM

<400> 71

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47

<210> 72

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Donor site and spacer sequence of PTM

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gatccaccgg
70

<210> 73

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<212> DNA

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<223> Binding domain of spacer sequence

<400> 73

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120

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<210> 76
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<210> 77
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33

<210> 78

<211> 33

<212> DNA

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<211> 35

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<211> 37

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37

<210> 81

<211> 23

<212> DNA

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<210> 82
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<210> 83
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<210> 91
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<210> 92
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<213> Artificial Sequence

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cagttggagg ag
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<400> 94

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<210> 95

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<210> 98
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<210> 99
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 <212> DNA
 <213> Artificial Sequence

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<210> 100
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 <223> Sequence from trans-splicing domain

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<212> DNA
<213> Artificial Sequence
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<220>
<223> trans-splicing domain of CFTR PTM
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ctgtatctat attcatcatt ggaaacacca atgatatttt ctttaatggg gcctggcata
180
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323

<210> 103
<211> 165
<212> DNA
<213> Artificial Sequence

<220>
<223> PTM binding domain

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atttaaaata cttcctgttt cacctactct gctatgcacc cgcg
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<210> 104
<211> 225
<212> DNA
<213> Artificial Sequence

<220>
<223> trans-splicing domain of CFTR PTM

<400> 104
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aaatacttcc tgtttcacct actctgctat gcacccgcgg aacattatta taacgttgct
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<212> DNA
<213> Artificial Sequence

<220>
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120
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